



Early Light Industrial Co., Ltd

Project No. : #0235
Model Name : Spy Hunter
TEL (HK): 852-29448866 EXT 354 Frequency : 27.145, 40.685 & 49.86 MHz
(China): 86-755-84651111 EXT 410 Date : 24 May,2004
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Electronics Department

CIRCUIT DESCRIPTION:

IN TRANSMIT MODE:

After TX unit is switched "ON" and press either SW101 ~ 111 the transmit frequency is oscillated by Y101 and mixed with the encoded signal from P3.3 port (pin 15) of U101 by Q102 then coupled through T101 to antenna.

The low pass filter made up of C109, T101 & C110, which is connected to the antenna.

A 9V Alkaline Battery supplies energy.

IN RECEIVE MODE:

The receiver part is using a Supper regenerator circuit and Q1 is the Supper regenerator & detector, ZD1 is the precision voltage regulator, U2 is the signal decoder. Q3, 8, 9, 14, 15 & 20 is the tunnels of the motor driver. Q4, 5, 6, 7, 10, 11, 12, 13, 16, 17, 18 & 19 are the current driver of the two motors. Energy is supplied by 4x1.5V AA size Alkaline battery.

ANTENNA AND GROUND CIRCUITRY.

This unit makes use of an external 8-inch antenna, the antenna is inductively coupled, the unit relies on the Ground trace of the printed circuit board. No external ground is provided.

A 9V Alkaline battery supplies energy.